

Title: "Oligonucleotide-Tagged Semiconductor Nanocrystals For Microarray And Fluorescence In Situ Hybridization" Inventors: Bittner, et al. Attorney: David W. Maher (650-849-4400)

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Test sample

Reference sample

Make RNA

Oligo dT-DNA-1 primer

Test RNA

Oligo dT-DNA-2 primer



Reference RNA

Make cDNA

cDNA from test RNA

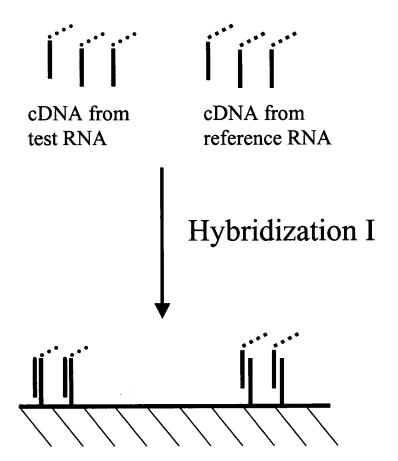
cDNA from reference RNA

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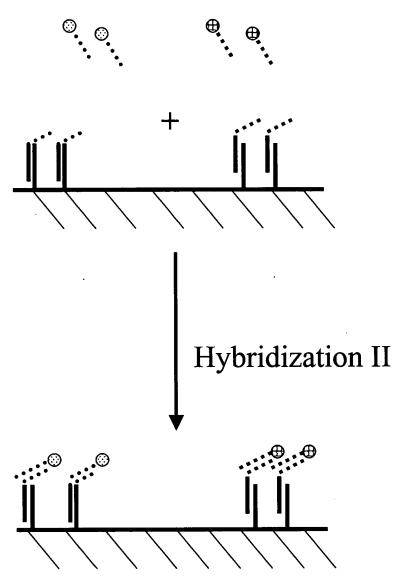
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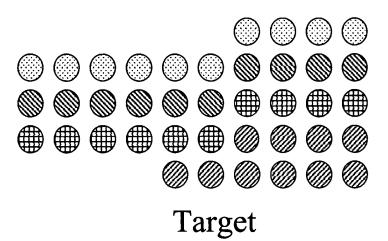


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- $\otimes$  = Gene A (h-136)
- $\oplus$  = Gene B (h-252)
- $\bigcirc$  = Gene C (h-501)
- $\odot$  = Gene D (h-503)

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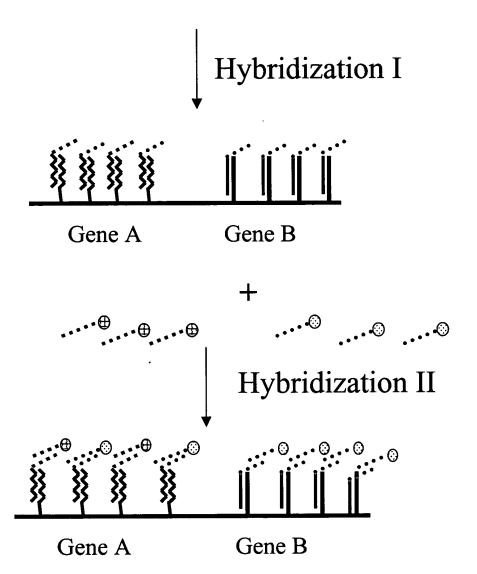


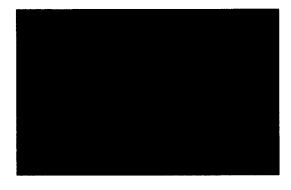
FIGURE 5A

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## FIGURE 5B

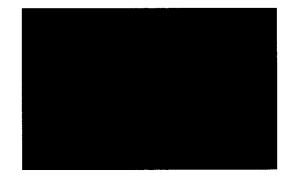


FIGURE 5C

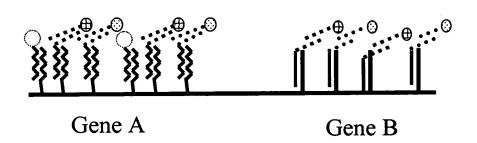
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# Hybridization II



### FIGURE 6A

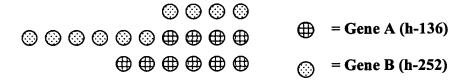


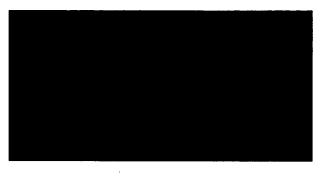
FIGURE 6B

In Situ Hybridization"
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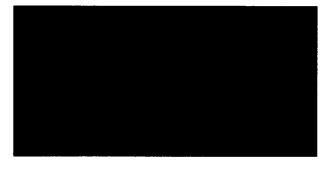
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Green Qdots signals from Gene A,B
FIGURE 6C



Red Qdots signals from Gene A, B

#### FIGURE 6D



Yellow Qdots signals from Gene A FIGURE 6E

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Slide ID	Microarray 1	Microarray 2

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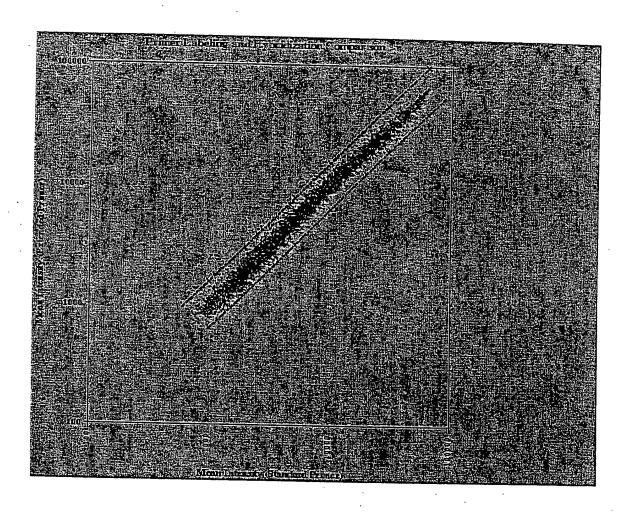


FIGURE 8